

Title (en)

APPARATUS FOR AND METHOD OF MANUFACTURING OPTICAL FIBER CABLE COVERED WITH METAL PIPE

Publication

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Application

EP 91900056 A 19901205

Priority

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Abstract (en)

[origin: US5380977A] An apparatus for manufacturing a metal tube covered optical fiber cable comprises an assembly of a plurality of roller pairs for forming a metal strip into a metal tube so that both side edge portions abut against each other, a laser (7) for welding the abutment portions with a laser beam to obtain a sealed metal tube (1c), an optical fiber guide for guiding an optical fiber (5) into the formed metal tube (1a), and a traction apparatus including a tension variable element for continuously drawing a sealed metal tube (id). The optical fiber guide is elastically urged against an inner wall opposite to an irradiated surface of the metal tube so that the optical fiber is protected even when the focal point of the laser beam is positioned below the abutment portions of the metal tube. In one embodiment a leaf spring mechanism is used to elastically urge the optical fiber guide.

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G02B 6/44

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

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